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Su	Substitute for form 1449/PTO			Complete if Known		
	•			Application Number	10/717,050	
INFORMATION DISCLOSURE				Filing Date	11/19/2003	
	TEMENT I			First Named Inventor	Rajiv K. Agarwal	
,	(Use as many sh	eets as nece	essary)	Art Unit	1742	
				Examiner Name		
Sheet	1	of	2	Attorney Docket Number	06391 USA	

U. S. PATENT DOCUMENTS							
Examiner Cite No Initials*		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or		
		Number-Kind Code ^{2 (1 krown)}			Relevant Figures Appear		
8		^{US-} 4,564,509	01/14/1986	James R. Shealy, et al			
2		^{US-} 4,565,677	01/21/1986	Atsushi Yusa			
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FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (7			Relevant Figures Appear	T®
₽ .		JP 7 267615 (abstract)	10/17/1995	Nippon Sanso KK		✓
0		JP 4 124001 (abstract)	04/24/1992	Nippon Sanso KK		1

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Sheet	2	of	2	Attorney Docket Number	06391 USA	

		NON PATENT LITERATURE DOCUMENTS	
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6		A.A. EFREMOV, et al, Absorption-Adsorption Process for Purification of Volatile Inorganic Hydrides, Amer. Chem. Soc., 6001 Chem. Abstracts, 114, April 1991, 22, no. 16.	1
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	^{US-} 4,983,363	01/08/1991	Tom et al.			
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	Cite No.1	Number-Kind Code ^{2 (I known)} US- 4,983,363 US- US-	Cite No.1 Document Number Publication Date MM-DD-YYYY	Cite No.1 Document Number Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document Number-Kind Code ^{2 (f known)} US- 4,983,363 O1/08/1991 Tom et al. US- US- U		

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SI(WO 02/45846	13.06.2003	Matheson Tris-Gas		
SK		EP 0839817	06.05.1998	Furukawa Co., Ltd.)	
31		CS 192 658 B-1	12/29/1978	Sichrovsky et al.		

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8		Tolmachev, A.M., et al., "Deep Purification of Hydrides by the Adsorption Method. I. Selectivity of Zeolites for Various Hydrides", Vysokochistye veshchestva 1988, No. 2, pp. 65-70 (2/1988)	
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